2013 Chevrolet Impala Police Package

Keys, Doors, and Windows 2-1
Keys and Locks 2-1

Seats and Restraints 3-1
Airbag System 3-1

Instruments and Controls 5-1
Warning Lights, Gauges, and Indicators 5-1
Information Displays 5-4
Vehicle Messages 5-5

Lighting 6-1
Exterior Lighting 6-1

Driving and Operating 9-1
Driving Information 9-1
Starting and Operating 9-1
Ride Control Systems 9-2
Towing 9-5

Vehicle Care 10-1
Vehicle Checks 10-1
Wheels and Tires 10-1

Service and Maintenance ... 11-1
Recommended Fluids, Lubricants, and Parts 11-2

Special Equipment Options 15-1
SEO Standard Options 15-2
SEO Available Options 15-11

Index i-1

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The information in this manual supplements the owner manual. This manual describes features that may or may not be on your specific vehicle either because they are options that you did not purchase or due to changes subsequent to the printing of this owner manual. Please refer to the purchase documentation relating to your

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Part No. 22800554 A First Printing

specific vehicle to confirm each of the features found on your vehicle. For vehicles first sold in Canada, substitute the name “General Motors of Canada Limited” for Chevrolet Motor Division wherever it appears in this manual.

Keep this manual in the vehicle for quick reference.

Canadian Vehicle Owners

Propriétaires Canadiens

A French language copy of this manual can be obtained from your dealer or from:

On peut obtenir un exemplaire de ce guide en français auprès du concessionnaire ou à l'adresse suivante:

Helm, Incorporated
Attention: Customer Service
47911 Halyard Drive
Plymouth, MI 48170

Using this Supplement

This supplement contains information specific to the unique components of the vehicle. It does not explain everything you need to know about the vehicle. Read this supplement along with the owner manual to learn about the vehicle's features and controls.

Index

A good place to look for what you need is the Index in back of this supplement. It is an alphabetical list of what is in the supplement, and the page number where you will find it.

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Keys, Doors, and Windows

Keys and Locks
Specific Cylinder Unit for Single Key - Random Code System 2-1

Keys and Locks

Specific Cylinder Unit for Single Key - Random Code System

If the vehicles are equipped with one of these options, the entire fleet of vehicle locks can be operated with one key.

- SEO 6E2-Specific Fleet Key Code
- SEO 6E8-Specific Fleet Key Code

The vehicle will be equipped with a standard production random key code if one of the optional fleet codes was not ordered.

For specific key code information, contact your dealer.

The vehicle will be equipped with a key cylinder in the ignition lock, the driver door, and trunk lid. Remote keyless entry (RKE) is a standard feature and operates all doors and the trunk lid. Six additional RKE transmitters may have been ordered with your vehicle. See your dealer for additional information regarding availability of more RKE units for the vehicle.

The RKE transmitter for the police vehicle has the vehicle locator/panic alarm button disabled. The horn will not sound and the exterior lights will not flash when the button is pressed.

Remote Keyless Entry Transmitter Programming – SEO AMF

Do not operate or program the transmitters in the vicinity of other vehicles that are in the keyless entry program mode. This prevents the programming of the transmitters to the incorrect vehicle.

Up to eight transmitters may be programmed to the RKE on police package equipped vehicles.

Verify that the proper transmitters are learned to the vehicle. Do not learn a transmitter with a remote start button to a vehicle that does not have remote start.

For the proper procedure to be used for learning transmitters, see *Driver Information Center (DIC) on page 5-4*.

Trunk Lid Keylock Cylinder

The vehicle has a keylock cylinder in the trunk lid.

If the vehicle is equipped with the theft-deterrent system (Option UA6), an audible alarm will occur when the key is used to open the trunk instead of the remote keyless entry (key fob). See your dealer to disable the audible alarm.

Seats and Restraints

Airbag System
Questions and Answers About Airbags and Specialty Law Enforcement Vehicles 3-1
Notices for Customer Installed Equipment 3-3
Airbag Deployment Diagrams 3-4

Airbag System

Questions and Answers About Airbags and Specialty Law Enforcement Vehicles

Q: Can equipment such as radar devices, video cameras, and radio trees be mounted in a specialty vehicle equipped with a right front passenger frontal airbag?

A: Yes, but care must be taken to properly mount the equipment outside of the airbag "deployment zone."

Q: What is the airbag "deployment zone"?

A: The term "deployment zone" describes the space an airbag takes up when fully inflated. Airbags need room to work properly, and anything in the "deployment zone" — such as improperly mounted equipment — can greatly affect the performance of the airbag.

⚠ WARNING

Airbags inflate with great force, faster than the blink of an eye. No objects, such as shotguns, should be placed over or near the airbag covers. Equipment mounted too close to an inflating airbag could break and become a dangerous projectile in a crash, causing injury to the vehicle's occupants. Also, an object too close to an inflating airbag could prevent the airbag from operating properly. If this ever happens, the airbag would not be able to protect occupants the way it was designed to. To help prevent injury and to allow the airbag to perform as it was designed, do not mount equipment inside the airbag deployment zone.

Q: How can I identify the airbag "deployment zone" in my vehicle?

A: See *Airbag Deployment Diagrams on page 3-4* for more information. The diagrams provide the approximate dimensions of the "deployment zones" for your specialty vehicle. Before doing any service work, including the installation of any equipment, consult the appropriate service manual.

Q: Is it possible to shield equipment so it does not interfere with airbag deployment?

A: While shielding may protect certain equipment from being damaged or dislodged, it may also negatively affect how an airbag inflates. Therefore, we cannot recommend the placement of any equipment in the deployment zone, even when shielding.

Q: Can the installation of push bumpers on the front end of the vehicle affect the deployment of the airbag?

A: General Motors is not aware of adverse effects during crash events from the many push bumpers that have been installed on GM police vehicles. Because there are many styles of push bumpers available with varying crash characteristics, installation of push bumpers may or may not affect deployment timing of the airbags. Push bumpers should be mounted to avoid modifying the vehicle structure and interfering with the front airbag sensors mounted on the upper radiator support cross member. Two front impact sensors are installed in GM vehicles. Do not relocate of disconnect the front sensors. The location and orientation of the front sensors are critical for correct operation of the airbag system. Avoid mounting components on or near the sensors. Push bumper styles with vertical pushing members that are in fore-aft alignment with the front airbag sensors are not recommended.

Q: Is there anything I might add to the front or sides of the vehicle that could keep the airbags from working properly?

A: Yes. If you add things that change your vehicle's frame, bumper system, height, front end or side sheet metal, they may keep the airbag system from working properly. Also, the airbag system may not work properly if you relocate any of the airbag sensors. If you have any questions about this, you should contact Customer Assistance before you modify your vehicle. The phone numbers and addresses for Customer Assistance are in Step Two of the Customer Satisfaction Procedures in the

owner manual. See “Customer Satisfaction Procedure” in the owner manual.

The service manual has information about the location of the airbag sensors, sensing and diagnostic module, and airbag wiring. See “Service Publications Ordering Information” in the owner manual.

Notices for Customer Installed Equipment

Read the following notices before installing equipment on the specialty vehicle.

Notice: **GM-approved service procedures must be followed to remove and reinstall the instrument panel to the pad in order to ensure proper airbag deployment.**

Notice: **Equipment mounted to the instrument panel top pad must not exceed 8.0 lb (3.6 kg).**

Notice: **In order not to restrict upward movement of the driver's side instrument panel top pad when the airbag deploys, equipment should be securely mounted only to the top pad.**

Notice: **Do not place equipment on the passenger's side of the instrument panel top pad because the edge of it rises when the airbag deploys.**

Notice: **Do not mount equipment on the passenger side of the instrument panel top pad deployment zone. Equipment should not be mounted on or around the passenger airbag opening because of a deploying airbag. To allow the airbag to perform as it was designed, do not mount equipment inside the airbag deployment zone.**

Notice: **Passenger airbag contacts inside rearview mirror at the beginning of deployment.**

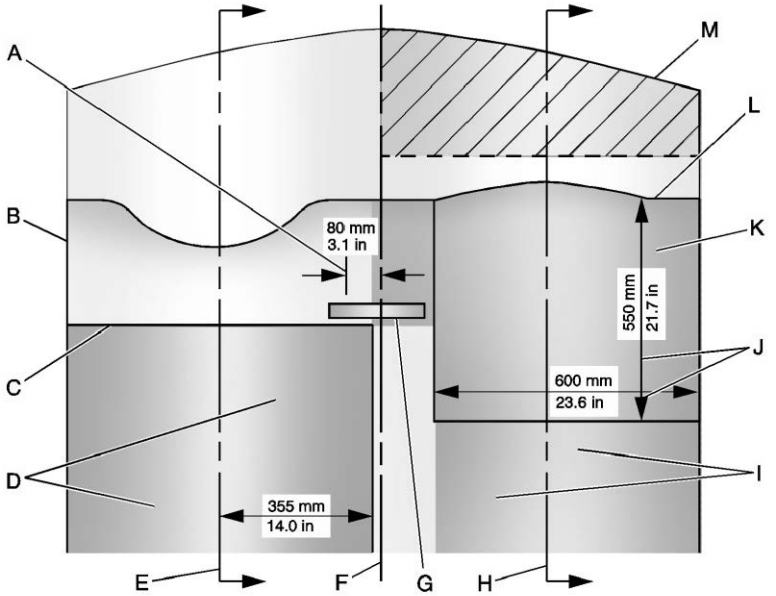
Video cameras and other small equipment should be securely mounted outside the airbag zone.

Notice: **The police vehicle has roof-rail airbags. Do not mount a security barrier such that the ends of the barrier or brackets are within the roof-rail deployment zones.**

Notice: **Avoid installing wiring for roof-rail emergency lighting or radio antennas that may restrict the proper deployment of the roof-rail airbags.**

Notice: **The police vehicle has seat-mounted side impact airbags for the driver and passenger front seat positions. Restricting the cover from opening prevents proper deployment of the seat-mounted side impact airbag. Do not cover or restrict the seat-mounted side impact airbag cover located on the outboard side of the seatback.**

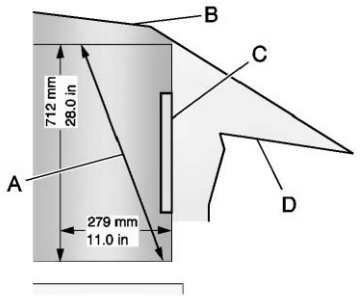
Airbag Deployment Diagrams



Instrument Panel Top View – Approximate Airbag Deployment Zone

A. Shift Selector Arc
B. Driver Side Door
C. Front of Steering Wheel (In Maximum Downward Position)
D. Driver Airbag Deployment Zone
E. Driver Centerline (Also See Side View)
F. Vehicle Centerline
G. Inside Rearview Mirror
H. Passenger Centerline (Also See Side View)
I. Passenger Airbag Deployment Zone
J. Approximate Maximum Dimension of Inflated Airbag
K. Passenger Side Door
L. Rear Edge of Instrument Panel Top Pad
M. Zone from Instrument Panel Top to Windshield

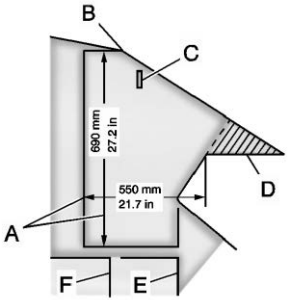
See *Notices for Customer Installed Equipment on page 3-3* for more information.



Side View of Driver Side Airbag Deployment Zone – Centerline of Driver

A. Driver Airbag Deployment Zone
B. Top of Windshield
C. Front of Steering Wheel (Maximum Downward Position)
D. Top of Instrument Panel

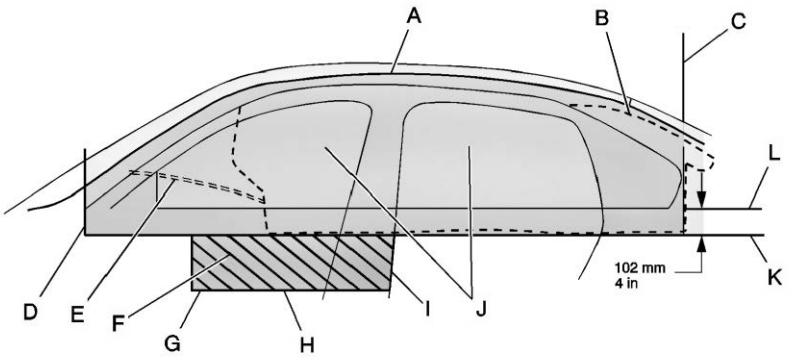
See *Notices for Customer Installed Equipment on page 3-3* for more information.



Side View of Passenger Side Airbag Deployment Zone – Centerline of Passenger

A. Passenger Airbag Deployment Zone
B. Top of Windshield
C. Inside Rearview Mirror
D. Top of Instrument Panel
E. Passenger Seat in Foremost Position
F. Passenger Seat in Rearmost Position

See *Notices for Customer Installed Equipment on page 3-3* for more information.



Roof Rail and Seat-mounted Side Impact Airbags Maximum Deployment Zone – Driver Side Shown, Passenger Side Similar

A. Top of Deployment Zone – Along Roof Rail at Edge of Headliner

B. Airbag Inflator Location on Sail Panel

C. Back of Deployment Zone – At Rear of Quarter Window

D. Front of Deployment Zone – At Front of Outside Mirror Patch

E. Forward Airbag Tether Line

F. Seat-mounted Side Impact Airbag Deployment Zone

G. Door Handle Front End

H. Groove in Front Door Armrest

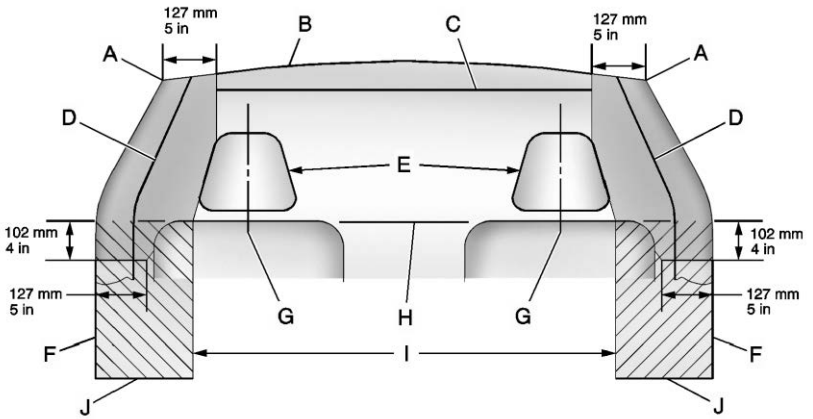
I. Pillar Trim

J. Approximate Shape of Deployed Airbag at Maximum Size

K. Bottom of Deployment Zone

L. Bottom of Door Windows

See *Notices for Customer Installed Equipment on page 3-3* for more information.



Roof Rail and Seat-mounted Side Impact Airbags Driver and Passenger Deployment Zones – View from Rear Seat

A. Edge of Headliner
B. Underside of Headliner
C. Roof Rail Airbag Deployment Zone
D. Inner Center Pillar Trim
E. Headrest
F. Inner Door Pad
G. Seat Centerline
H. Bottom of Door Windows
I. Seat-mounted Side Impact Airbag Deployment Zone – Front Seat
J. Groove in Front Door Armrest

See *Notices for Customer Installed Equipment on page 3-3* for more information.

✍ NOTES

Instruments and Controls

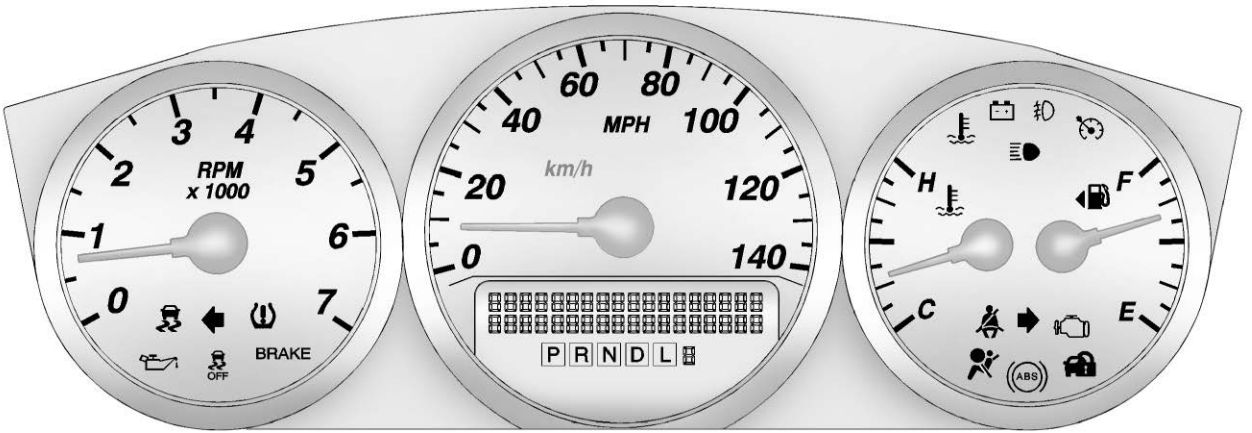
Warning Lights, Gauges, and Indicators
Instrument Cluster 5-2
Electronic Stability Control (ESC) Off Light 5-3

Information Displays
Driver Information Center (DIC) 5-4

Vehicle Messages
Ride Control System Messages 5-5

Warning Lights, Gauges, and Indicators

Instrument Cluster



English Certified Cluster, Metric Similar

The words CERTIFIED SPEEDOMETER will flash in the Driver Information Center (DIC) display for approximately two seconds when the engine is started. The DIC can be set to display digital vehicle speed while the vehicle is being driven. See *Driver Information Center (DIC) on page 5-4*.

Electronic Stability Control (ESC) Off Light

This light comes on briefly while starting the engine.

If it does not, have the vehicle serviced by your dealer. If the system is working normally, the indicator light then goes off.

Press and briefly hold the ESC OFF button to turn off the ESC system; the ESC OFF light comes on and a message appears in the Driver Information Center (DIC).

See *Ride Control System Messages on page 5-5* for more information.

If the TCS/ESC system is off, the system does not assist in controlling the vehicle. Turn on the TCS/ESC system and the indicator light turns off.

See *Traction Control System (TCS) on page 9-2*, and *Electronic Stability Control (ESC) on page 9-3* for more information.

Performance Mode

When the ESC OFF button is pressed, th ESC OFF light comes on and PERFORMANCE MODE displays in the DIC.

The traction control system is still active, but limited to driveline protection only. ESC is also active, but is limited to high-speed pursuit purposes.

See the owner manual for more information.

Information Displays

Driver Information Center (DIC)

Trip/Fuel Menu Items

(Trip/Fuel): Press this button to scroll through the following menu items:

Digital Speedometer

The speedometer shows how fast the vehicle is moving in either kilometers per hour (km/h) or miles per hour (mph). The speedometer cannot be reset.

Vehicle Information Menu Items

(Vehicle Information): Press this button to scroll through the following menu items:

Relearn Remote Key

To access this display, the vehicle must be in P (Park). This display allows you to match the Remote Keyless Entry (RKE) transmitter to the vehicle. This procedure will erase all previously learned transmitters. Therefore, they must be relearned as additional transmitters.

To match an RKE transmitter:

1. Press until PRESS TO RELEARN REMOTE KEY displays.
2. Press ✓. REMOTE KEY LEARNING ACTIVE is displayed.
3. Press and hold the lock and unlock buttons on the first transmitter at the same time for about 15 seconds.

   A chime will sound indicating that the transmitter is matched.
4. To match additional transmitters at this time, repeat Step 3.

   Each vehicle can have a maximum of eight transmitters matched to it.
5. To exit the programming mode, you must cycle the key to LOCK/OFF.

Vehicle Messages

Ride Control System Messages

PERFORMANCE MODE

This message displays when the ESC OFF button is pressed once. See *Electronic Stability Control (ESC) on page 9-3* for more information.

✍ NOTES

Lighting

Exterior Lighting
Exterior Lamp Controls 6-1

Exterior Lighting

Exterior Lamp Controls

Police Package and Special Service Package

The following exterior lighting features apply to vehicles first sold in the United States.

The vehicle has Daytime Running Lamps (DRL) and an Automatic Headlamp System (AHS). The DRL and AHS can be turned to OFF with the headlamp switch when the transmission is in P (Park) and the engine is at idle. If the engine is not turned off, the DRL and AHS will remain OFF when the transmission is placed in gear. The vehicle may be driven with the lamps off for one ignition cycle.

The vehicle may have been built with SEO 9G8, DRL AND AHS DISABLE. This feature turns off DRL and AHS and requires manual control of the exterior lighting. See your dealer to restore the DRL and AHS to normal operation.

For vehicles first sold in Canada, the DRL and AHS can be turned off if the transmission is in P (Park). See the owner manual.

Special Features

Police Package and Special Service Package

The following standard features are disabled in the Police Package and Special Service Package.

- Entry Lighting and Exit Lighting
- Remote Keyless Entry Feedback: Horn Beep and Lamps Flash
- Automatic Door Locking and Unlocking

✍ NOTES

Driving and Operating

Driving Information
Vehicle Load Limits 9-1

Starting and Operating
Fast Idle System 9-1

Ride Control Systems
Traction Control System (TCS) 9-2
Electronic Stability Control (ESC) 9-3

Towing
Trailer Towing 9-5

Driving Information

Vehicle Load Limits

Impala police vehicles may have a full-size spare tire. If the full-size spare tire is stored in the trunk of the vehicle, do not carry more than 64 kg (141 lbs) in the trunk. See “Vehicle Load Limits” in the owner manual.

Starting and Operating

Fast Idle System

While parked with the engine idling for an extended period, turn off the following factory equipment if emergency lighting and communication equipment are operating:

- Air Conditioner
- Fan
- Rear Window Defogger
- Factory Audio System

When the automatic transmission is in P (Park), the driver's foot is off the brake, and the emergency equipment is turned on, the engine rpm may increase to 1,200 rpm to keep the electrical power of the vehicle at a steady rate. Even with the extra power boost, the vehicle may stall after long periods of time with a heavy electrical load.

See “Running the Vehicle While Parked” in the owner manual.

Ride Control Systems

Traction Control System (TCS)

The vehicle may have a Traction Control System (TCS) that limits wheel spin. This is especially useful in slippery road conditions. The system operates only if it senses that one or both of the front wheels are spinning or beginning to lose traction. When this happens, the system reduces engine power and may also upshift the transmission and apply the front brakes to limit wheel spin.

This light will flash when the TCS is limiting wheel spin.

The system may be heard or felt while it is working, but this is normal.

The TCS is automatically enabled whenever the vehicle is started. The system can be turned off, but it will no longer assist in controlling the vehicle.

If cruise control is being used when TCS begins to limit wheel spin, the cruise control will automatically disengage. Cruise control may be reengaged when road conditions allow. See “Cruise Control” in owner manual,

The TCS operates in all transmission shift lever positions. But the system can upshift the transmission only as high as the shift lever position chosen, so use the lower gears only when necessary. See “Automatic Transmission” in the owner manual.

When the system is on, this warning light comes on and stays on if there is a problem.

A SERVICE TRACTION CONTROL message also appears on the DIC. When this warning light is on, the system will not limit wheel spin. Adjust your driving accordingly. See “Messages” under “Ride Control System” in the owner manual.

To limit wheel spin, especially in slippery road conditions, TCS should always be left on. But the system can be turned off if needed. Turn the system off if the vehicle gets stuck in sand, mud, or snow and rocking the vehicle is required. See “If the Vehicle Is Stuck” under “Driving” in the owner manual.

To disable both traction control and ESC, press and hold the ESC OFF button briefly.

When the ESC OFF button is pressed, the ESC Off light comes on and PERFORMANCE MODE displays in the DIC. The TCS is still active, but limited to driveline protection only. ESC is also active, but is limited to high speed pursuit purposes.

Press the ESC OFF button again to turn the system back on. The TRACTION CONTROL ON message will appear in the DIC.

Adding non-dealer accessories can affect the vehicle performance. See “Accessories and Modifications” in the owner manual.

Electronic Stability Control (ESC)

Your vehicle may have an Electronic Stability Control (ESC) system which combines antilock brake, traction, and stability control systems and helps the driver maintain directional control of the vehicle in most driving conditions.

When you first start your vehicle and begin to drive away, the system performs several diagnostic checks to ensure there are no problems. You may hear or feel the system working. This is normal and does not mean there is a problem with your vehicle. The system should initialize before the vehicle reaches 32 km/h (20 mph).

If the system fails to turn on or activate due to a fault, the ESC/TCS light will be on solid, and the SERVICE STABILITRAK message will be displayed. If the system fails to turn on or activate due to it not initializing, the DIC will display

STABILITRAK INITIALIZING. See “Messages” under “Ride Control System” in the owner manual.

This light will flash on the instrument panel cluster when the ESC system is both on and activated.

You may also feel or hear the system working; this is normal.

When the light is on solid and the SERVICE STABILITRAK message is displayed, the system will not assist the driver in maintaining directional control of the vehicle. Adjust your driving accordingly. See “Messages” under “Ride Control System” in the owner manual.

The Electronic Stability Control (ESC) system is automatically enabled whenever you start your vehicle. To assist the driver with vehicle directional control, especially in slippery road conditions, you should always leave the system on. But, you can turn ESC off if you ever need to.

If the vehicle is in cruise control when the system begins to assist the driver maintain directional control of the vehicle, the ESC/TCS light will flash and the cruise control will automatically disengage. When road conditions allow you to use cruise again, you may re-engage the cruise control. See “Cruise Control” in the owner manual.

The ESC OFF button is located on the instrument panel.

To disable both traction control and ESC, press and hold the button briefly.

When the ESC OFF button is pressed, the ESC Off light comes on and PERFORMANCE MODE displays in the DIC. The TCS is still active, but limited to driveline protection only. ESC is also active, but is limited to high speed pursuit purposes.

It is recommended to leave the system on for normal driving conditions, but it may be necessary to turn the system off if your vehicle is stuck in sand, mud, ice, or snow, and you want to “rock” your vehicle to attempt to free it. It may also be necessary to turn off the system when driving in extreme off-road conditions where high wheel spin is required. See “If the Vehicle Is Stuck” under “Driving” in the owner manual.

ESC may also turn off automatically if it determines that a problem exists with the system. The SERVICE STABILITRAK message and the ESC/TCS light will be on solid to warn the driver that ESC is disabled and requires service. If the problem does not clear after restarting the vehicle, you should see your dealer for service. See “Messages” under “Ride Control System” in the owner manual.

Adding non-dealer accessories can affect your vehicle performance. See “Accessories and Modifications” in the owner manual.

Towing

Trailer Towing

Impala police vehicles are not intended to tow a trailer.

✍ NOTES

Vehicle Care

Vehicle Checks
Brakes 10-1

Wheels and Tires
Tire Pressure Monitor System 10-1
Compact Spare Tire 10-2
Full-Size Spare Tire (SEO N81) 10-3

Vehicle Checks

Brakes

All Impala police vehicles have the Antilock Brake System (ABS). Many of the components of the brake system used on the Impala police vehicle are unique to the vehicle. Before doing any service work, consult the appropriate service manual.

See “Brakes” in the owner manual for additional information on the brake system.

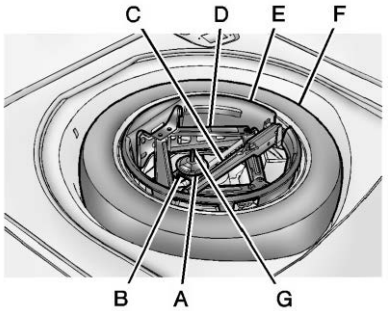
Wheels and Tires

Tire Pressure Monitor System

The Impala full-size spare includes a sensor for the Tire Pressure Monitor System (TPMS). The compact spare tire/wheel, which is standard with the Impala Police Package, does not include a TPMS sensor. The TPMS will not monitor or display the spare tire air pressure until the tire/wheel is installed at one of the four tire/wheel positions on the vehicle.

Once installed, the spare tire sensor code must be matched to the new position on the vehicle. See “Tire Pressure Monitor Operation” in the owner manual for information about matching the spare tire to the TPMS.

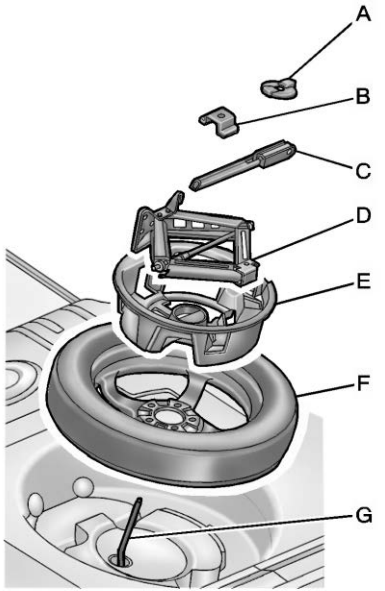
Compact Spare Tire



A. Retainer
B. Retainer Bracket
C. Wheel Wrench
D. Jack
E. Jack Container
F. Compact Spare Tire
G. Bolt Screw

Impala police vehicles may be equipped with a 17–inch compact spare tire instead of a full-size spare tire.

Refer to the following diagram as a guide for storing the compact spare tire in the trunk. For more information on spare tire storage and changing a flat tire, see “Tire Changing” in the Vehicle Care section of the owner manual.

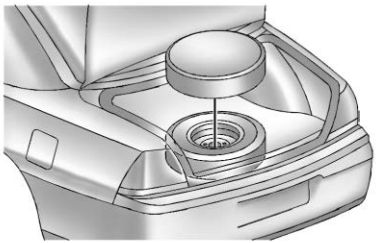


Compact Spare Tire

A. Retainer
B. Retainer Bracket

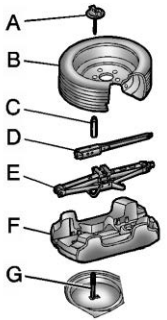
C. Wheel Wrench
D. Jack
E. Jack Container
F. Compact Spare Tire
G. Bolt Screw

Full-Size Spare Tire (SEO N81)



Impala police vehicles may be equipped with a full-size spare tire. When the full-size spare tire option is ordered, the tire is equipped with a vinyl cover and a surrounding trunk mat. See *Vehicle Load Limits on page 9-1* for more information.

Refer to the following diagram as a guide for storing the full-size spare tire in the trunk. For more information on spare tire storage and changing a flat tire, see “Tire Changing” in the Vehicle Care section of your owner manual.



Full-Size Spare Tire

A. Retainer
B. Full-Size Spare Tire
C. Extension Bolt Screw
D. Wheel Wrench
E. Jack
F. Foam Holder
G. Bolt Screw

✍ NOTES

Service and Maintenance

Recommended Fluids, Lubricants, and Parts
Maintenance Replacement Parts 11-2

Recommended Fluids, Lubricants, and Parts

Maintenance Replacement Parts

Replacement parts identified below by name, part number, or specification can be obtained from your dealer.

Maintenance Replacement Parts

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	10350737	A2962C
Engine Oil Filter	12600224	PF48
Passenger Compartment Air Filter	15284938	CF132
Spark Plugs	12622561	41-109
Wiper Blades		
Driver Side - 55.0 cm (21.7 in)	15941731	—
Passenger Side - 55.0 cm (21.7 in)	15941732	—

Special Equipment Options

SEO Standard Options

SEO Standard Options - Police Package and Special Service Package 15-2
Power Steering/Engine Oil Cooling System 15-2
Trunk Ground Stud 15-3
Wiring Provisions for 12-Volt Battery Power Supply 15-4
Auxiliary Battery Power Junction Blocks 15-8
Heavy Duty Cooling System 15-10
Radios 15-10
Seats 15-10
Trunk Mat 15-10

SEO Available Options

SEO Available Options - Police Package and Special Service Package 15-11
Auxiliary Dome Lamp - SEO 6C7 15-11
Dome Lamp Inoperative Function - SEO 7Y6 15-12
Inoperative Rear Door Handles - SEO 6B2 15-12
Exterior Lamp Emergency Flashing System - SEO 6J7 15-12
Heavy Duty Floor Covering - SEO 6A3 15-15
Ignition Control Trunk Release - SEO A98 15-15
Rear Panel Lamps - SEO 6J6 15-15
Rear Windows Inoperative - SEO 6N5 15-15
Inoperative Rear Door Locks - SEO 6N6 15-15
Spotlamp - SEO 7X6 15-16
Spotlamps - SEO 7X7 15-16
Wiring Provisions for Vehicle Grille Lamps and Speaker/ Siren - SEO 6J3 15-17
Spotlamp Provisions - SEO 7X8 15-19
Spotlamp Provisions - SEO 7X9 15-19
Trunk Lid Warning Lamps - SEO T53 15-19
Wiring Provisions for Horn/ Siren Circuit - SEO 6J4 . . . 15-20
Wiring Provisions for Roof-Mounted Accessories - SEO 6F5 15-22
Wiring Provisions Front Speakers - SEO WX7 15-24
Wiring Provisions Rear Coaxial Cable - SEO 6C8 15-27

SEO Standard Options

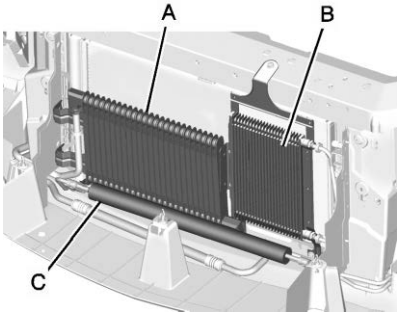
SEO Standard Options - Police Package and Special Service Package

Notice: **GM cannot be responsible for any changes made to the vehicle. Have all electrical and body modifications performed by experienced technicians.**

- **Be sure that any modified or added wiring will work properly with your vehicle's wiring system.**
- **See that all wiring is properly protected by fuses, and not causing an overload to connectors and components.**
- **Do not route wiring in areas of the vehicle where temperatures can be high or where wiring may be cut, pinched, or rubbed.**
- **See that all added wiring is of the same or larger gauge than the wire it is being attached to for proper fuse protection.**
- **Be sure that all holes drilled in the body are properly sealed and corrosion protected. See that the vehicle's wiring harnesses, piping, and other components have not been displaced or damaged during customer installations of equipment and wiring.**
- **Do not route wiring or equipment which could interfere with roof-mounted side impact airbags.**

Notice: **Overloading the vehicle's electrical system may damage your vehicle's accessories. Do not overload the vehicle's system by having unnecessary accessories on at the same time.**

Power Steering/Engine Oil Cooling System



A. Engine Oil Cooler

B. Transmission Fluid Cooler

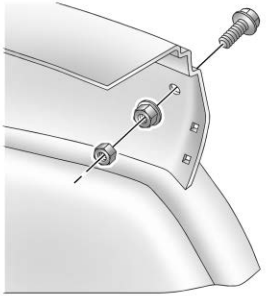
C. Power Steering Cooler

Your Impala police vehicle is equipped with auxiliary fin-type air-to-oil coolers mounted in front of the engine coolant radiator.

The auxiliary coolers are mounted separately, with the power steering cooler just below the engine oil cooler. The transmission fluid cooler

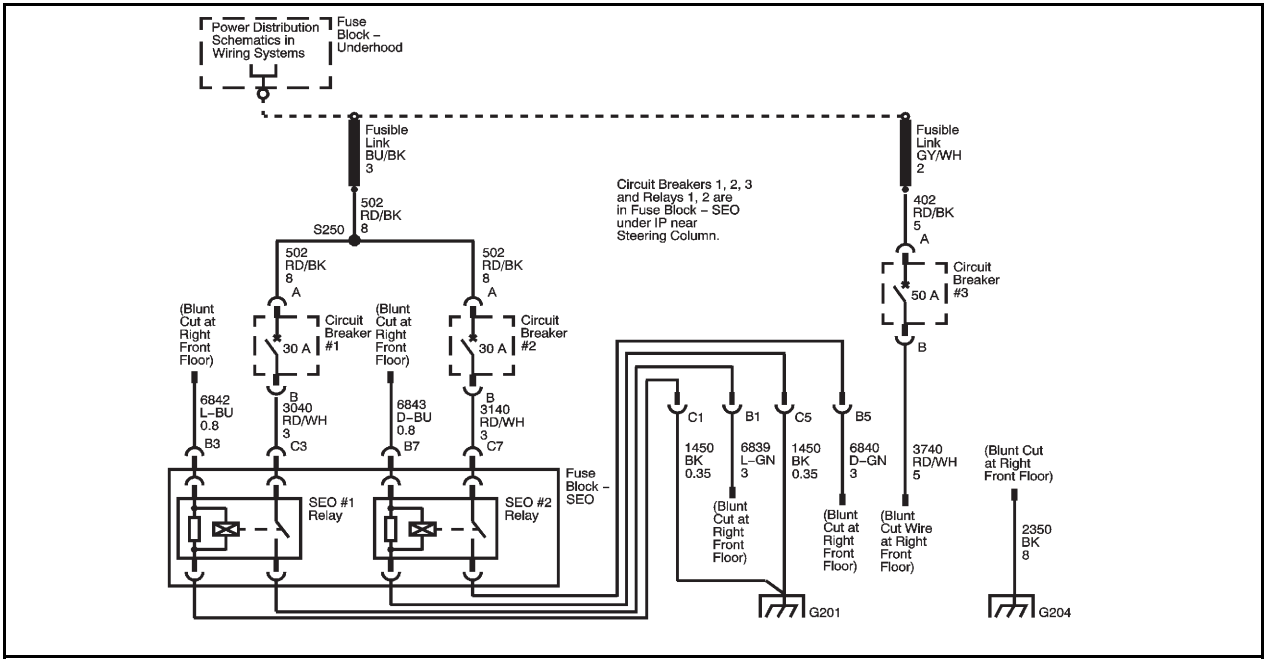
is to the left of the engine oil cooler and is connected in series with the coolant radiator end-tank cooler.

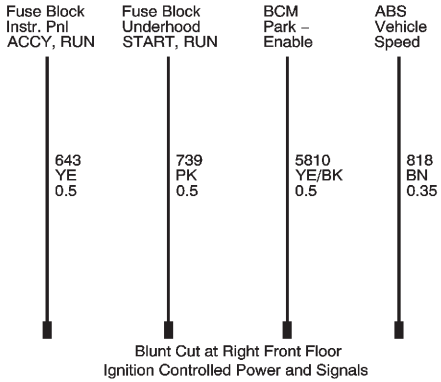
Trunk Ground Stud



A 10 mm ground stud can be found in the trunk on the passenger side of the vehicle. The stud is located above the trunk auxiliary junction block. See “Trunk Auxiliary Battery Power Junction Block” that follows for more information on location. A 10 mm flanged hex nut grounds the 10 mm bolt to the vehicle. Recommended torque for the flanged nut is 35 N·m (26 lb ft), plus or minus 5 N·m (4 lb ft). A 10 mm hex nut is provided for customer ground termination. Recommended torque for the terminal connection nut is 10 N·m (7.3 lb ft), plus or minus 1.3 N·m (1 lb ft).

Wiring Provisions for 12-Volt Battery Power Supply





Blunt Cut at Right Front Floor
Ignition Controlled Power and Signals

Battery power is supplied through two fusible links, one 50 amp and one 65 amp, to three circuit breakers and two control relays located in the relay center above the accelerator pedal. For location information, see “Servicing Relays and Circuit Breakers” in the Index. A 50 amp circuit breaker feeds power directly from the 50 amp fusible link through a 5.0 mm² (10 gauge) blunt cut wire. Two 30 amp circuit breakers supply power from the 65 amp fusible link through the contacts of the control relays to 3.0 mm² (12 gauge) blunt cut wires. The blunt cut leads are part of a 1.5 m (5 ft) loop of wire coiled under the instrument panel in the front passenger side footwell.

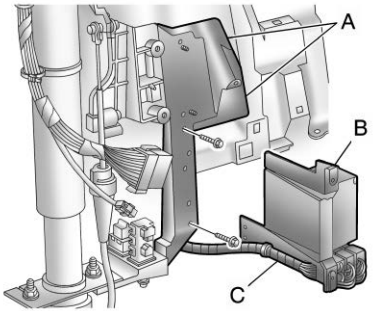
Each relay is operated by an 0.8 mm² (18 gauge) blunt cut, light or dark blue control lead included in the 1.5 m (5 ft) coil under the instrument panel. An 8.0 mm² (8 gauge) ground lead is also provided in the 1.5 m (5 ft) coil. The total current available through the 12-volt power supply is 110 amps (1320 watts).

Blunt cut ignition controlled power and signal circuits are also included in the following 1.5 m (5 ft) right foot loop:

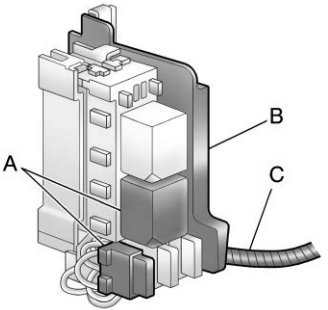
- A yellow, 0.5 mm² (20 gauge) 10 amp fused circuit, Hot in ACC/ACCESSORY, ON/RUN or RAP (Retained Accessory Power). The fuse for this circuit is labeled “RAP” and is located in the fuse block in the front passenger side instrument panel.
- A pink, 0.5 mm² (20 gauge) 10 amp fused circuit, Hot in START and ON/RUN. The fuse for this circuit is labeled “PWR DROP/CRANK” and is located in the underhood fuse block in the engine compartment.
- A yellow/black, 0.5 mm² (20 gauge) transaxle park signal from the Body Control Module (BCM). The circuit provides a switched power when the transaxle is not in PARK (P) and the engine is running. The electrical load attached to the park circuit must not exceed 0.5 amps and is meant to drive one relay coil.
- A brown, 0.35 mm² (22 gauge) vehicle speed signal (4,000 pulses/mile) from the ABS module. Connect only high impedance load.

Servicing Relays and Circuit Breakers

The following information shows you where the relays and circuit breakers are located in the Fuse Block-SEO.



A. Instrument Panel Carrier
B. Relay Center for Circuit Breakers and Control Relay
C. Instrument Panel Harness Branch



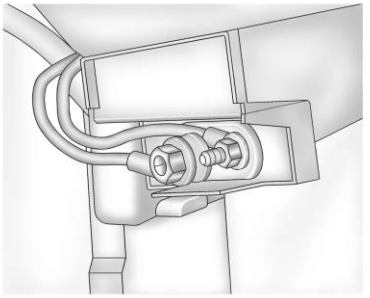
Enlarged View of the SEO Fuse Block

A. Relays and Circuit Breakers
B. Front of the Vehicle
C. Floor of the Vehicle

Auxiliary Battery Power Junction Blocks

The auxiliary battery power junction block is mounted in the trunk of your Impala police vehicle. It is located on the passenger side support strut behind the rear wheel housing.

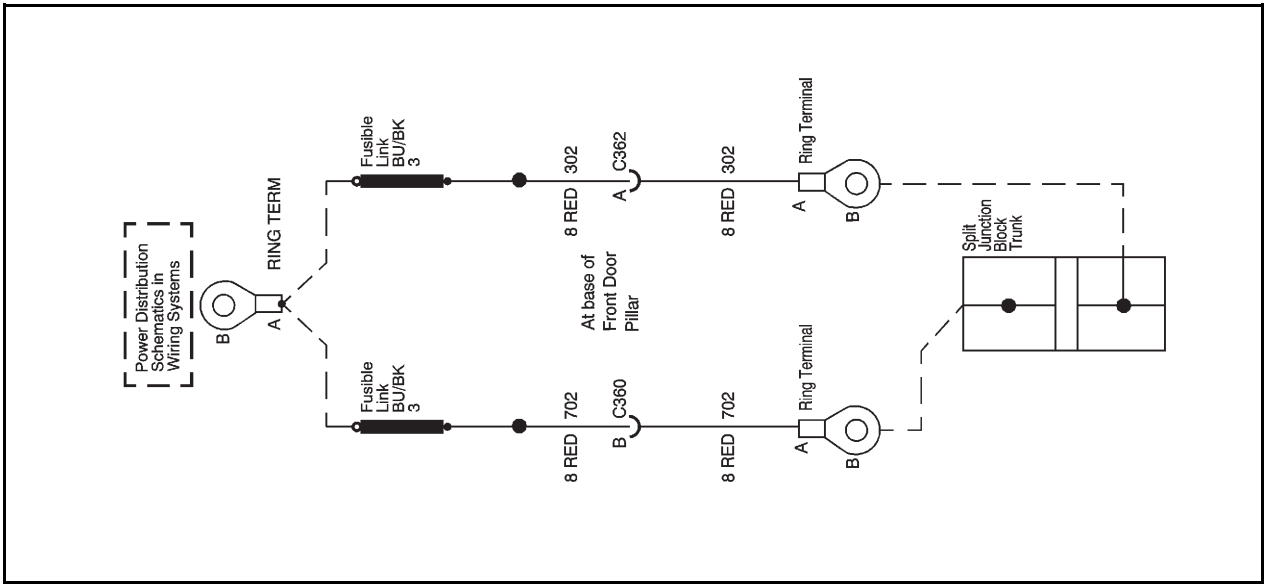
This junction block is split to provide two circuits and can be used to connect customer-furnished equipment directly to the battery through 8.0 mm² (8 gauge) body wiring and fusible links. A maximum of 100 amps (1200 watts) can be connected. Torque the connections to the studs to 15 N·m (11 lb ft). It is fed by two fusible links of 50 amps each.



To connect the customer-furnished equipment at the junction block, use the following steps:

1. Disconnect the negative (−) battery cable.
2. Connect the customer-furnished equipment positive leads to the junction block terminals and tighten to 15 N·m (11 lb ft).

   The ignition must be turned off and the vehicle vacated prior to connecting the negative (−) battery cable to the battery.
3. Reconnect the negative (−) battery cable to the battery.
4. Set the time on the clock and radio pushbuttons as needed. See “Audio System” in the owner manual.



Wiring Diagram for Trunk Auxiliary Battery Power Junction Block

Heavy Duty Cooling System

A high capacity radiator and fan replace the standard cooling system. Refer to the owner manual for more information on the cooling system.

Radios

Chime Level Adjustment

Impala police vehicles are equipped with a radio that provides an AM-FM stereo with a CD player. The radio produces the required warning chimes for the vehicle. The volume level of the chimes can be adjusted to be louder, but cannot be turned off.

The sound for the warning chimes is directed to the left front door speaker. When SEO WX7 (wiring provisions for the front speakers) is installed, the sound is directed to the left rear speaker.

See “Climate Control Systems” and “Audio System” in the owner manual to adjust the chime volume or contact your dealer for assistance.

Radio Suppression

Impala police vehicles are equipped with spark plugs and spark plug wires designed to reduce radio interference noise levels which may affect communication equipment, including operating frequencies in the 38 MHz to 58 MHz range.

Seats

Impala SEO 9C1 police vehicles are equipped with high-density foam front seats that have security panels in the seatbacks and a high-density foam rear seat cushion and seatback.

Trunk Mat

A heavy duty vinyl mat covers the trunk floor in vehicles equipped with either a compact or full-size spare tire.

SEO Available Options

SEO Available Options - Police Package and Special Service Package

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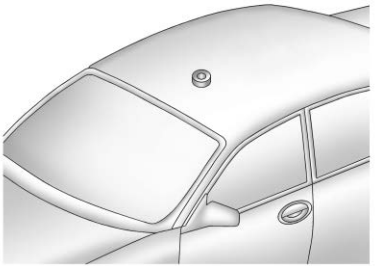
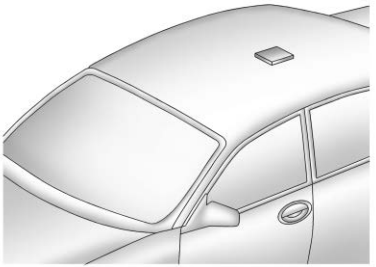
- **See that all added wiring is of the same or larger gauge than the wire it is being attached to for proper fuse protection.**
- **Be sure that all holes drilled in the body are properly sealed and corrosion protected. See that the vehicle's wiring harnesses, piping, and other components have not been displaced or damaged during customer installations of equipment and wiring.**
- **Do not route wiring or equipment which could interfere with roof-mounted side impact airbags.**

Auxiliary Dome Lamp - SEO 6C7



The auxiliary dome lamp has red LED/white incandescent lights and is located on the headliner between the driver and the front passenger seating positions. The button for this lamp is located at the rear base of the lamp. The lamp is wired independently. To operate the lamp, press the button. To turn the lamp off, press the button again.

Dome Lamp Inoperative Function - SEO 7Y6



This feature makes the dome lamp inoperative when a door is opened. The dome and courtesy lamps can only be controlled using the dome lamp button on the overhead console.

Inoperative Rear Door Handles - SEO 6B2

This feature makes the rear door handles inoperative. When the feature is enabled, the inside rear door handles are disconnected and the rear doors can only be opened from the outside.

Exterior Lamp Emergency Flashing System - SEO 6J7

SEO 6J7 provides a high-beam headlamps flashing module, rear lamps flashing, and control wire for a customer-furnished switch to turn the module on or off. The flasher control wire is coiled in the passenger side footwell under the instrument panel. This control lead may be combined with the interior wiring leads for SEO 6J3 when that option is ordered with SEO 6J7.

The headlamps flashing module is located at the inboard end of the passenger side headlamps assembly. The headlamps flashing module is activated by the application of 12 volts to a red/white wire coiled in the passenger side footwell. When activated, the driver and passenger side high-beam headlamps will flash alternately at 2.4 flashes per second.

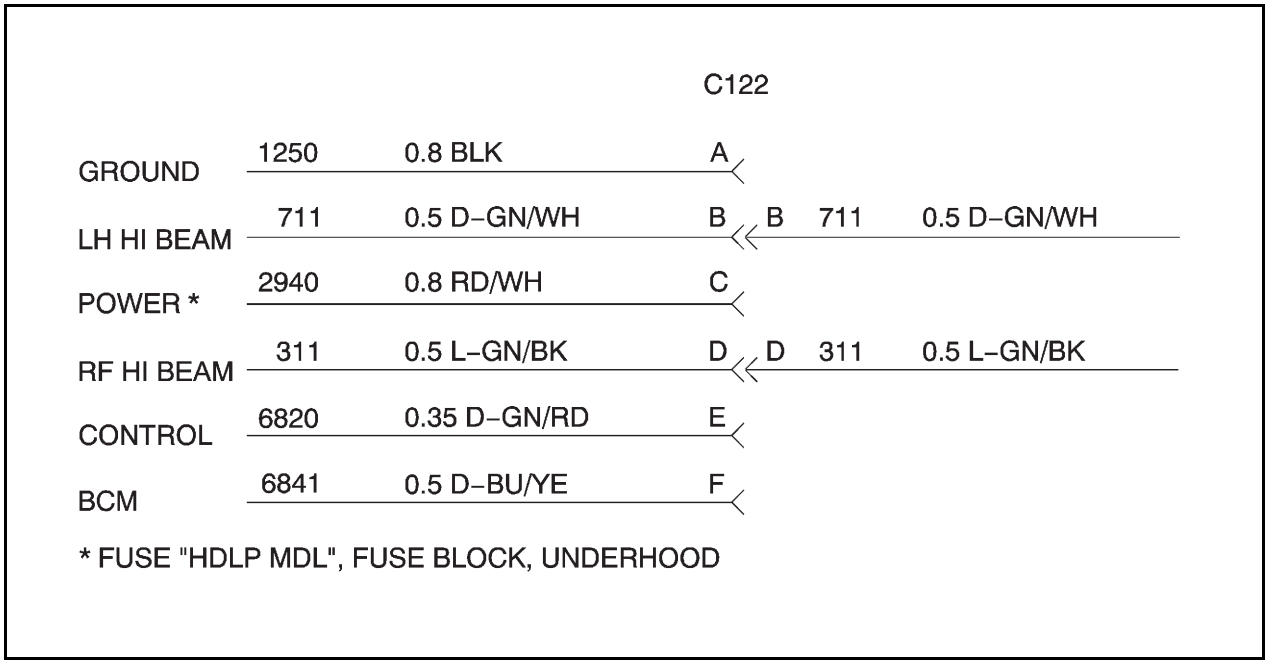
During daylight conditions, the Daytime Running Lamps (DRL) are automatically turned off whenever the headlamps flasher module is activated. During nighttime conditions, the low-beam headlamps turn on automatically while the high-beam headlamps flash. Turning on the high-beam headlamps manually with the turn signal/multifunction lever will override the flashing module and the high-beam headlamps will operate continuously.

A fuse labeled HDLP MDL protects the flasher module circuit. This fuse is located in the underhood fuse block in the engine compartment on

the passenger side of the vehicle. See “Fuses and Circuit Breakers” in the owner manual.

When the headlamps flashing module is turned on, the module sends a signal to the Body Control Module (BCM). The BCM alternately flashes the stop lamps and backup lamps. Depressing the brake pedal will override the stop lamp flashing and placing the transaxle in reverse will override the backup lamp flashing.

When it is dark outside, the taillamps will turn on automatically. The Center High-Mounted Stoplamp (CHMSL) will not flash and will operate only when the regular brake pedal is pressed.



Forward Lamp Harness In-Line Connector for use with Headlamps Flasher Module, Option 6J7

The connector is located on the back of the passenger side of the bumper beam.

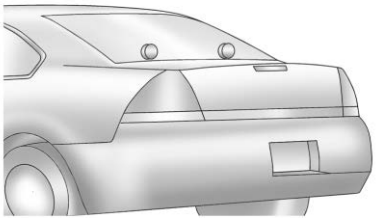
Heavy Duty Floor Covering - SEO 6A3

Impala police vehicles are equipped with carpet and carpeted floor mats. Optional heavy floor covering may replace the carpeting and floor mats.

Ignition Control Trunk Release - SEO A98

Impala police vehicles are equipped with an electric trunk release which operates when the vehicle's ignition is in LOCK/OFF. This feature can be changed, however, to operate only when the vehicle's ignition is in ON/RUN. To enable this feature on your vehicle, contact your dealer for assistance.

Rear Panel Lamps - SEO 6J6



Two 10 cm (4 in) red single faced lamps are mounted behind the rear seatback to be viewed through the rear window. The lamps work as auxiliary turn signal lamps, stoplamps, and hazard warning flashers. The wire to each lamp is extended to a loop with yellow (left) and green (right) wires coiled in the passenger side footwell. These loops allow customer installation of an in-line switch in each lamp circuit to disable the auxiliary lamp feature.

Rear Windows Inoperative - SEO 6N5

This feature makes the rear window switches inoperative. While the feature is enabled, the rear window switches are disconnected and the rear windows can only be operated from the driver's window switch.

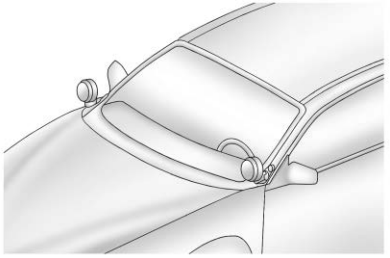
Inoperative Rear Door Locks - SEO 6N6

This feature makes the rear door locks inoperative. When the feature is enabled, the rear door lock switches are disconnected and the rear doors can only be locked or unlocked from the driver's door lock switch.

Spotlamp - SEO 7X6

This option includes one pillar-mounted driver side halogen spotlamp. The spotlamp has a fuse located in the passenger side underhood fuse block.

Spotlamps - SEO 7X7

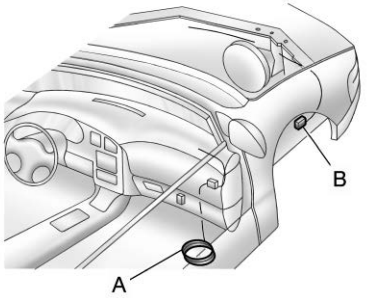


SEO 7X7 includes a driver and a passenger side spotlamp.

The spotlamp fuses are located in the passenger side underhood fuse block. See “Fuses and Circuit Breakers” in the owner manual.

For spotlamp bulb replacement procedures, see the appropriate section of the service manual.

Wiring Provisions for Vehicle Grille Lamps and Speaker/Siren - SEO 6J3



Alternating Signal Flasher

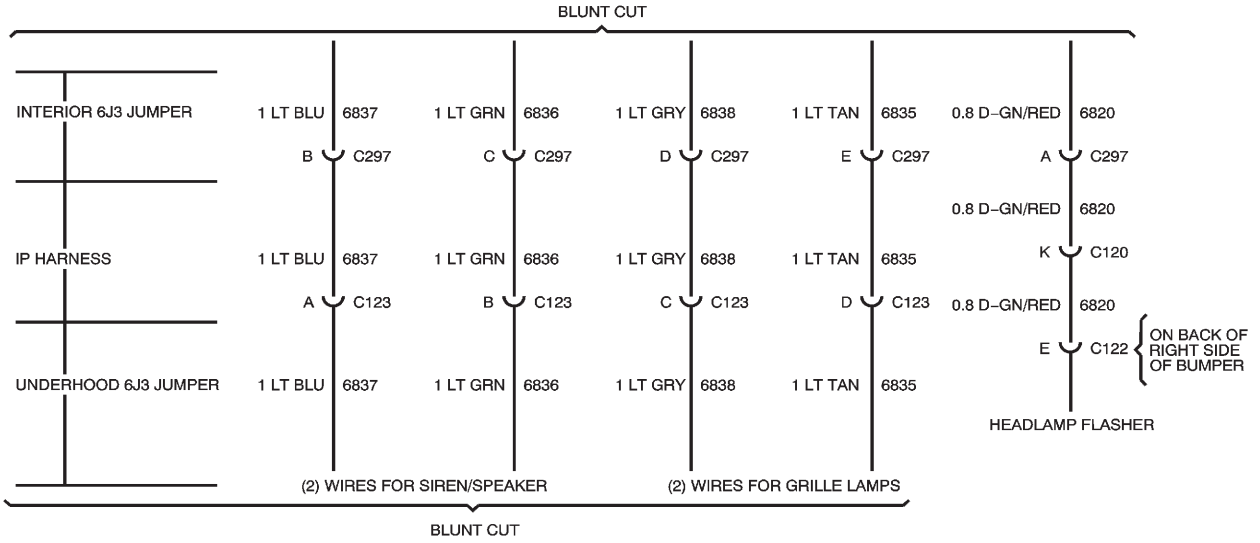
A. Blunt cut ends for the Customer-Furnished Grille Lamps and Customer-Furnished Siren/Speaker

B. Control Wires from In-Line Connector in Forward Lamp Harness for Customer-Furnished Grille Lamps and Speaker

The SEO 6J3 wiring provision option consists of a 1.5 m (5 ft) wiring harness coiled underneath the instrument panel on the passenger side. The wiring circuits are routed from underneath the instrument panel to a 30 cm (1 ft) coil secured in the area behind the grille. There are four 1.0 mm² (16 gauge) wires for connecting to the grille lights (GRY, TAN) and siren speaker (LT BU, LT GN).

The SEO 6J3 wiring provision also includes one 0.8 mm² (18 gauge) control wire for the SEO 6J7 exterior lamps emergency flashing system.

When option SEO 6J7 is installed without option SEO 6J3, only the dark green/red control wire is provided for connection to customer-furnished 12-volt switching to turn the emergency flashing system on or off.



Wiring Diagram for SEO 6J3 and SEO 6J7

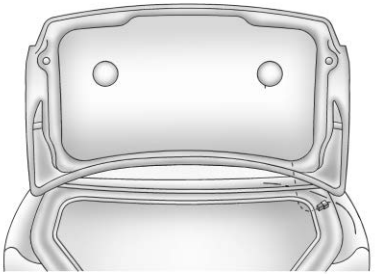
Spotlamp Provisions - SEO 7X8

This option includes a provision for the installation of a driver side pillar-mounted spotlamp. The provision includes a hole in the A pillar for spotlamp shaft routing, mounting bracket, and a power connector. The spotlamp wiring is powered by a fuse located in the passenger side underhood fuse block.

Spotlamp Provisions - SEO 7X9

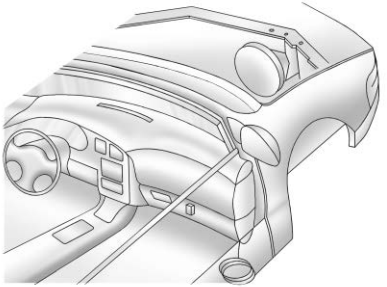
This option includes provisions for the installation of driver and passenger side pillar-mounted spotlamps. The provision includes a hole in the A pillar for spotlamp shaft routing, mounting bracket, and a power connector. The spotlamp wiring is powered by fuses that are located in the passenger side underhood fuse block.

Trunk Lid Warning Lamps - SEO T53



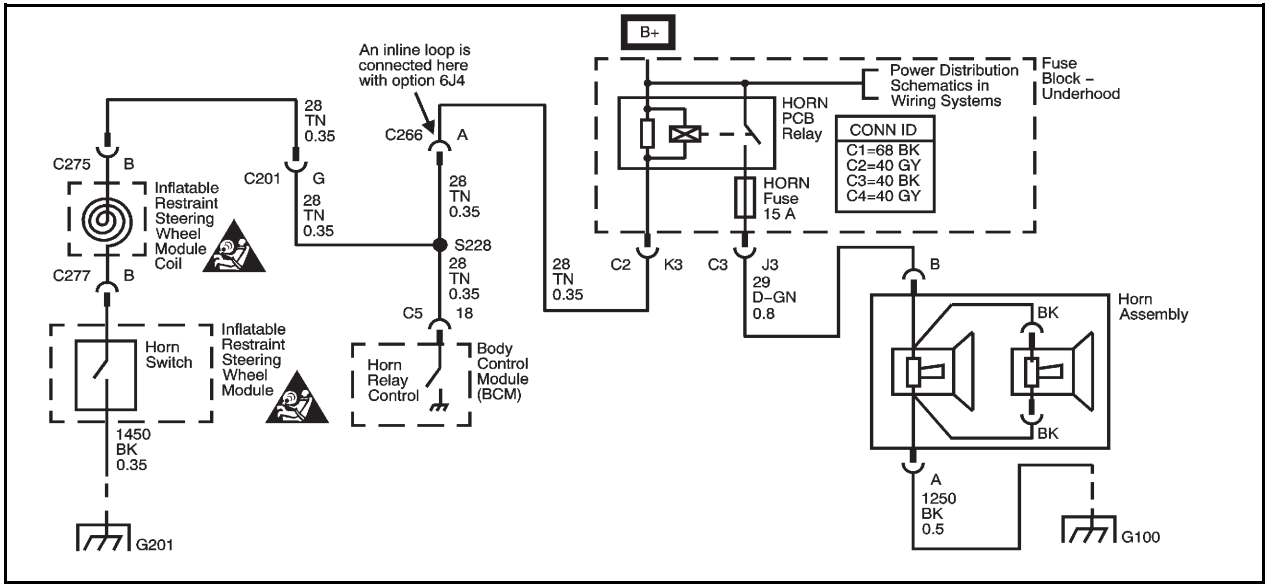
Two 10 cm (4 in) single faced lamps are mounted to the inside of the trunk lid. The lamps work while the trunk lid is opened. They are wired to flash alternately through a flasher located at the right front corner of the trunk opening.

Wiring Provisions for Horn/Siren Circuit - SEO 6J4



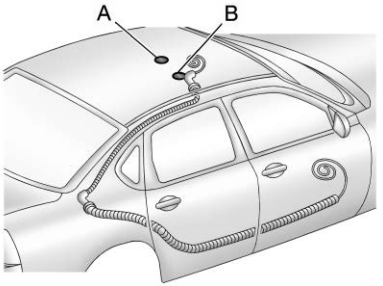
This provision permits customer connection of a switch to select either horn or siren operation when the horn pad is pressed.

A 0.35 mm² (22 gauge) wire is connected to an in-line connector in the horn circuit of the instrument panel harness under the instrument panel. The end of this harness extension is in a 1.5 m (5 ft) loop of wire coiled under the instrument panel.



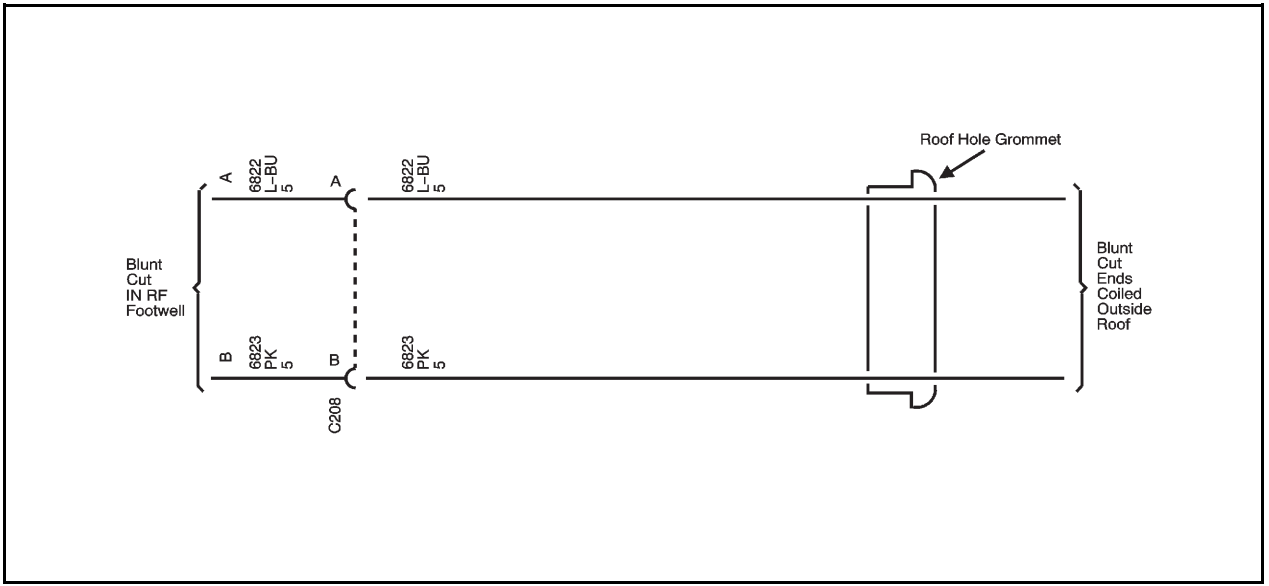
Wiring Diagram for SEO 6J4 Inline Connector

Wiring Provisions for Roof-Mounted Accessories - SEO 6F5



A. 6B7 Hole Location

B. 6J5 Hole Location



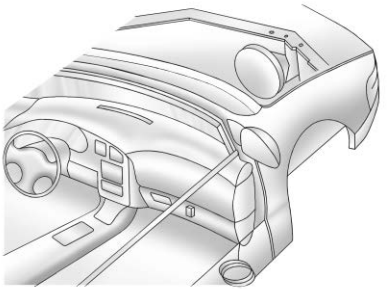
Wiring Diagram for SEO 6F5

Option 6F5 is a universal wiring harness for roof-mounted equipment. The harness is routed from a 1.5 m (5 ft) coil of wire in the passenger side footwell to a connector on the passenger side of the trunk.

When the SEO 6B7 (center hole) is ordered, two color-coded 5.0 mm² (10 gauge) wires extend 60 cm (24 in) through a grommet approximately 74 cm (30 in) behind the top of the windshield at the center of the roof.

When SEO 6J5 (passenger side hole) is ordered, two color-coded 5.0 mm² (10-gauge) wires extend 60 cm (24 in) through a grommet approximately 74 cm (30 in) behind the top of the windshield and 15 cm (6 in) inboard from the passenger side longitudinal roof joint.

Wiring Provisions Front Speakers - SEO WX7



About 165 cm (65 in) of auxiliary speaker wire is run from the instrument panel radio connector and is coiled under the center of the instrument panel. The wiring permits the connection of front door speakers to customer-installed communication equipment.

Radio outputs from the front speakers are sent to the rear speakers to maintain the required open door/key in the ignition reminder chime.

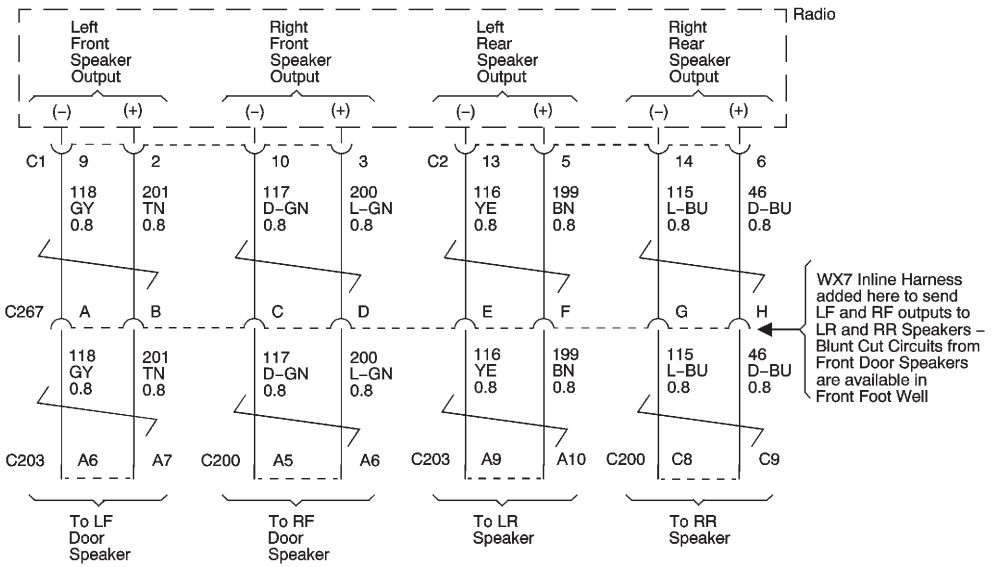
Electrical Connections

1. Disconnect the negative (−) battery cable at the battery.
2. Remove the tape from the wire coiled under the instrument panel to uncoil it.
3. Using proper electrical connectors, connect the wires for the left front audio output of the customer-installed communication device. The left front positive wire is tan and the left front negative wire is gray.
4. Using proper electrical connectors, connect the wires for the right front audio output of the customer-installed communication device. The right front positive wire is light green and the right front negative wire

is dark green. The electrical impedance of each speaker installed is 10 ohms.

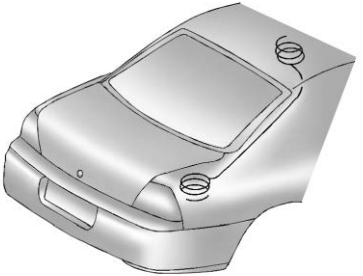
Notice: **Overloading the vehicle's electrical system may damage your vehicle's accessories. Do not overload the vehicle's system by having unnecessary accessories on at the same time.**

5. The ignition must be turned off and the vehicle must be vacated prior to attaching the cable to the battery. Connect the negative (−) battery cable to the battery and tighten the bolt to 15 N·m (11 lb ft).
6. Set the time on the clock and radio pushbuttons as needed. See “Audio System” in the owner manual.


Radio
Left Front Speaker Output
Right Front Speaker Output
Left Rear Speaker Output
Right Rear Speaker Output
(–) (+)
C1 9 2
10 3
C2 13 5
14 6
118 GY 0.8
201 TN 0.8
117 D–GN 0.8
200 L–GN 0.8
116 YE 0.8
199 BN 0.8
115 L–BU 0.8
46 D–BU 0.8
C267 A B C D E F G H
WX7 Inline Harness added here to send LF and RF outputs to LR and RR Speakers – Blunt Cut Circuits from Front Door Speakers are available in Front Foot Well
C203 A6 A7
C200 A5 A6
C203 A9 A10
C200 C8 C9
To LF Door Speaker
To RF Door Speaker
To LR Speaker
To RR Speaker

Wiring Diagram for SEO WX7 Inline Connector

Wiring Provisions Rear Coaxial Cable - SEO 6C8



About 240 cm (95 in) of RG58 coaxial radio antenna cable is run from the roof panel just rear of the center dome lamp and coiled in the trunk to reach either corner. The cable permits the connection of customer-installed communication equipment.

✍ NOTES

A

Accessories, Wiring
Provisions for
Roof-Mounted - SEO 6F5 . . . 15-22
Airbags
Deployment Diagrams 3-4
Questions and Answers
About Airbags and
Specialty Law
Enforcement Vehicles 3-1
Auxiliary
Available Option 15-8
Auxiliary Battery Power
Junction Blocks, Available
Option 15-8
Auxiliary Dome Lamp SEO
- 6C7 15-11

B

Battery
Power Junction Blocks 15-8
Wiring Provisions for
12-Volt Power Supply 15-4
Brakes 10-1

C

Cable, Wiring Provisions
for Coaxial Cable -
SEO 6C8 15-27
Canadian Vehicle Owners ii
Circuit
Wiring Provisions for
Horn/Siren - SEO 6J4 15-20
Cluster, Instrument 5-2
Compact Spare Tire 10-2
Cooling
Heavy Duty System 15-10
Customer-installed
Equipment, Notices 3-3

D

Deployment Diagrams 3-4
Dome Lamp Inoperative
Function - SEO 7Y6 15-12
Driver Information
Center (DIC) 5-4
Driving
Vehicle Load Limits 9-1

E

Electronic Stability Control 9-3
Electronic Stability Control
(ESC) Off Light 5-3
Engine
Oil Cooling System and
Power Steering 15-2
Exterior Lamp Controls 6-1
Exterior Lamp Emergency
Flashing System -
SEO 6J7 15-13

F

Fast Idle System 9-1
Flasher, Wiring Provisions
- SEO 6J3 15-17
Floor Covering
Heavy Duty - SEO 6A3 15-15
Full-Size Spare Tire 10-3

H

Heavy Duty Cooling System 15-10
Heavy Duty Floor Covering - SEO 6A3 15-15
Horn/Siren, Wiring Provisions - SEO 6J4 15-20

I

Idle System Fast 9-1
Ignition Control Trunk Release - SEO A98 15-15
Inoperative Rear Door Handles- SEO 6B2 15-12
Inoperative Rear Door Locks - SEO 6N6 15-15
Instrument Cluster 5-2
Introduction ii

K

Keys
Single Key Random Code System 2-1

L

Lamp
Auxiliary Dome, SEO - 6C7 15-11
Lamps
Exterior Controls 6-1
Exterior Emergency Flashing System - SEO 6J7 15-13
Rear Panel - SEO 6J6 15-15
Trunk Lid Warning - SEO T53 15-19
Vehicle Grille Wiring Provisions - SEO 6J3 15-17
Light
Electronic Stability Control (ESC), Off 5-3

M

Mat, Trunk 15-10
Messages
Ride Control System 5-5
Monitor System, Tire Pressure 10-1

N

Notices for Customer-installed Equipment 3-3

P

Police Package SEO Available Options 15-11
Police Package and Special Service Package, SEO Standard Options 15-2
Power Steering/Engine Oil Cooling System 15-2

Q

Questions and Answers About Airbags and Specialty Law Enforcement Vehicles 3-1

R

Radios 15-10
Rear Panel Lamps -
SEO 6J6 15-15
Rear Windows Inoperative
- SEO 6N5 15-15
Replacement Parts
Maintenance 11-2
Ride Control Systems 9-3
Electronic Stability (ESC) 9-3
Messages 5-5
Roof-Mounted
Accessories, Wiring
Provisions - SEO 6F5 15-22

S

Safety Belts
Questions and Answers
About Airbags and
Specialty Law
Enforcement Vehicles 3-1
Seats 15-10
SEO Available Options
Police Package 15-11
SEO Standard Options
Police Package and
Special Service Package 15-2
Spare Tire
Compact 10-2
Speaker/Siren, Wiring
Provisions - SEO 6J3 15-17
Speakers
Wiring Provisions, Front -
SEO WX7 15-24
Special Equipment Options
Dome Lamp Inoperative
Function - SEO 7Y6 15-12
Heavy Duty Floor
Covering - SEO 6A3 15-15
Ignition Control Trunk
Release - SEO A98 15-15
Spotlamp Provisions -
SEO 7X8 15-19
Spotlamp Provisions -
SEO 7X9 15-19
Specific Cylinder Unit for
Single Key - Random Code
System 2-1
Spotlamp
SEO 7X6 15-16
Spotlamp Provisions -
SEO 7X8 15-19
Spotlamps
SEO 7X7, Available
Option 15-16
Supplement
Using ii
System
Heavy Duty Cooling 15-10

T

Tires
Compact Spare 10-2
Full-Size Spare 10-3
Pressure Monitor System 10-1
Towing
Trailer 9-5
Traction
Control System (TCS) 9-2
Trailer
Towing 9-5
Trunk Ground Stud 15-3
Trunk Lid Warning Lamps -
SEO T53 15-19
Trunk Mat 15-10

Trunk Release
Ignition Controlled -
SEO A98 15-15

U

Using This Supplement ii

V

Vehicle
Canadian Owners ii
Load Limits 9-1

W

Wiring Provisions
12-Volt Battery Power
Supply 15-4
Front Speakers -
SEO WX7 15-24
Horn/Siren Circuit -
SEO 6J4 15-20
Wiring Provisions (cont'd)
Rear Coaxial Cable -
SEO 6C8 15-27
Roof-Mounted
Accessories - SEO 6F5 ... 15-22
Vehicle Grille Lamps, and
Speaker/Siren -
SEO 6J3 15-17